

# Curriculum Vitae

of

## Xin Dong

*XDong@lbl.gov    dongx@mail.ustc.edu.cn*

**Name:** (first) **Xin** (last) **Dong**  
**Gender:** Male  
**Citizenship:** P.R. China  
**Date of Birth:** 01/30/1979  
**Place of Birth:** Hefei, China  
**E-mail:** XDong@lbl.gov  
dongx@mail.ustc.edu.cn  
**Phone:** +1-510-486-7264  
**Fax:** +1-510-486-4818  
**Current Address:** MS70R0319, 1 Cyclotron Road,  
Berkeley, CA 94720, USA

### Education

Period	Affiliation	Position	Degree Awarded
09/2000 - present	University of Science and Technology of China (USTC)	Ph.D. student	-
09/1996 - 07/2000	University of Science and Technology of China (USTC)	Undergraduate	B.S.

### Research Experience

- 03/1999 - 06/2000: started to enroll in the High Energy Physics Group in Depart. of Modern Physics, USTC. My work for the undergraduate thesis was on the improvement of the light nuclei identification using the average of truncated energy loss and the optimized combination of 2-D hit positions.
- 09/2000 - 06/2001: Based on GEANT III, I did the simulation on the luminosity monitor upgrade for BES III. I studied the feasibility of the luminosity monitor set up outside the quadrupole magnets and proposed the project.

- 08/2001 - 01/2002: As a visitor to IHEP in Beijing, China, under the supervision of Prof. Yongsheng Zhu. I finished the analysis on the total number determination of  $\psi(2S)$  in the data taken in BES II. I also started the simulation of the muon detector of BES III to offer information on the detector structure design.
- 01/2002 - 02/2003: Starting to get involved into heavy ion physics. I tried to learn the physics topics as well as the data analysis environment.
- 02/2003 - 06/2004: I became a visiting research scholar to LBNL, USA starting from 02/2003. In this period, I was involved into the offline calibration for the prototype Time-Of-Flight (TOF) detector and the identified particle spectra analysis in d+Au and p+p collisions in RHIC Run III. I especially finished the single electron spectra analysis from Run III. This work has been published in Phys. Rev. Lett.
- 06/2004 - 02/2005: Analysis on Au+Au 62.4 GeV data from STAR in Run 4. I finished the identified particle elliptic flow measurement up to intermediate  $p_T$  from the TOF detector. I also did the single electron analysis with TOF and TPC, for both  $p_T$  spectrum and elliptic flow. This work illustrated the feasibility of the electron analysis technique for the coming Au+Au 200 GeV data set.
- 02/2004 - present: As the TOF subsystem software coordinator of STAR, I have been developing the fundamental TOF offline software codes for prototypes of TOF detector and preparing for the coming full coverage TOF detector. These developments necessarily and strongly support many important physics results from TOF detector in the last 3 years.

## Teaching Experience

- 09/2000 - 01/2001: Teaching assistant for the course "Advanced mathematics I".
- 02/2001 - 07/2001: Teaching assistant for the course "Optics".

## Preference

- Ziping Zhang, Professor, University of Science and Technology of China, E-mail: zpz@ustc.edu.cn
- Nu Xu, Senior Scientist, Lawrence Berkeley National Laboratory, E-mail: NXu@lbl.gov

## Presentations

- *Open charm production at RHIC - recent results from STAR*  
21st Winter Workshop on Nuclear Dynamics, Breckenridge, Colorado, USA, 02/05/2005 - 02/12/2005.
- *Elliptic flow of pion, kaon, proton from Au + Au collisions at 62.4 GeV*  
2004 Fall Meeting of the Division of Nuclear Physics of APS, Chicago, Illinois, USA, 10/27/2004 - 10/31/2004.

- *Open Charm Yields in  $d + Au$  Collisions at 200 GeV* (poster)  
2004 Gordon Research Conference on Nuclear Chemistry, New London,  
New Hampshire, USA, 06/13/2004 - 06/18/2004.
- *Resonance decay effects on Anisotropy Parameters*  
April Meeting of APS, Denver, Colorado, USA, 05/01/2004 - 05/04/2004.
- *Open Charm Yield in 200 GeV  $d + Au$  Collisions at RHIC*  
2004 April Meeting of APS, Denver, Colorado, USA, 05/01/2004 - 05/04/2004.
- *The Performance of a Prototype Multigap Resistive Plate Chamber Time-Of-Flight Detector for the STAR Experiment* (poster)  
Quark Matter 2004, Oakland, California, USA, 01/11/2004 - 01/17/2004.
- *Single Electron Spectra from  $d+Au$  and  $p+p$  collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
2003 Fall Meeting of the Division of Nuclear Physics of APS, Tucson,  
Arizona, USA, 10/28/2003 - 10/31/2003.

## Publication List

- *Open charm yields in  $d + Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **94**, 062301(2005)  
*Principle authors:* X. Dong, L. Ruan, Z. Xu and H. Zhang.
- *Resonance decay effects on anisotropy parameters*  
X. Dong, S. Esumi, P. Sorensen, N. Xu and Z. Xu, Phys. Lett. **B597**,  
328(2004).
- *Open charm production at RHIC - recent results from STAR*  
X. Dong *et al.* (for STAR Collaboration), Proceedings of 21st Winter  
Workshop on Nuclear Dynamics.
- *Improvement on the charge resolution with the average of truncated  $dE/dx$  and optimized combination*  
X. Dong, S.W. Ye, H.F. Chen, Z.P. Zhang and Z.Z. Xu, Journal of Uni-  
versity of Science and Technology of China xx, xx (2002) (in Chinese).
- *Pion, kaon, proton and anti-proton transverse momentum distributions from  $p + p$  and  $d + Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), *arXiv: nucl-ex/0309102*  
*Principle authors:* L. Ruan, X. Dong, F. Geurts, J. Wu and Z. Xu.
- *Azimuthal anisotropy and correlations at large transverse momenta in  $p+p$  and  $Au + Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **93**, 252301(2004).
- *Azimuthally sensitive HBT in  $Au + Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **93**, 012301(2004).
- *Multi-strange baryon production in  $Au-Au$  collisions at  $\sqrt{s_{NN}} = 130$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **92**, 182301(2004).
- *Cross Sections and Transverse Single-Spin Asymmetries in Forward Neutral Pion Production from Proton Collisions at  $\sqrt{s} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **92**, 171801(2004).

- *Identified particle distributions in pp and Au + Au collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **92**, 112301(2004).
- *$\rho^0$  Production and Possible Modification in Au + Au and p + p Collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **92**, 092301(2004).
- *Azimuthal anisotropy at the Relativistic Heavy Ion Collider: the first and fourth harmonics*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **92**, 062301(2004).
- *Particle-type dependence of azimuthal anisotropy and nuclear modification of particle production in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **92**, 052302(2004).
- *Pion-Kaon Correlations in Central Au + Au Collisions at  $\sqrt{s_{NN}} = 130$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **91**, 262302(2003).
- *Three-Pion Hanbury Brown-Twiss Correlations in Relativistic Heavy-Ion Collisions from the STAR Experiment*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **91**, 262301(2003).
- *Transverse momentum and collision energy dependence of high  $p_T$  hadron suppression in Au+Au collisions at ultrarelativistic energies*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **91**, 172302(2003).
- *Evidence from d+Au measurements for final-state suppression of high  $p_T$  hadrons in Au + Au collisions at RHIC*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. Lett. **91**, 072304(2003).
- *Pseudorapidity Asymmetry and Centrality Dependence of Charged Hadron Spectra in d + Au Collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. C **70**, 064907(2004).
- *Measurements of transverse energy distributions in Au + Au collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. C **70**, 054907(2004).
- *Photon and neutral pion production in Au + Au collisions at  $\sqrt{s_{NN}} = 130$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. C **70**, 044902(2004).
- *Centrality and pseudorapidity dependence of charged hadron production at intermediate  $p_T$  in Au + Au collisions at  $\sqrt{s_{NN}} = 130$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. C **70**, 044901(2004).
- *Rapidity and Centrality Dependence of Proton and Anti-proton Production from Au + Au Collisions at  $\sqrt{s_{NN}} = 130$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. C **70**, 041901(2004).
- *Production of  $e^+e^-$  Pairs Accompanied by Nuclear Dissociation in Ultra-Peripheral Heavy Ion Collision*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. C **70**, 031902(R)(2004).
- *Transverse-momentum dependent modification of dynamic texture in central Au + Au collisions at  $\sqrt{s_{NN}} = 200$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. C **70**, 031901(R)(2004).
- *Net charge fluctuations in Au + Au collisions at  $\sqrt{s_{NN}} = 130$  GeV*  
J. Adams *et al.* (STAR Collaboration), Phys. Rev. C **68**, 044905(2003).